

Watershed-Based Planning Project

City of Duvall
City Council / Planning Commission Joint Workshop
June 17, 2015



What we will cover today

- Revisions made to the Draft Watershed Plan
 - Policy recommendation updates
 - Implications
- Latest results of Watershed Survey
- Next Steps

Major Changes

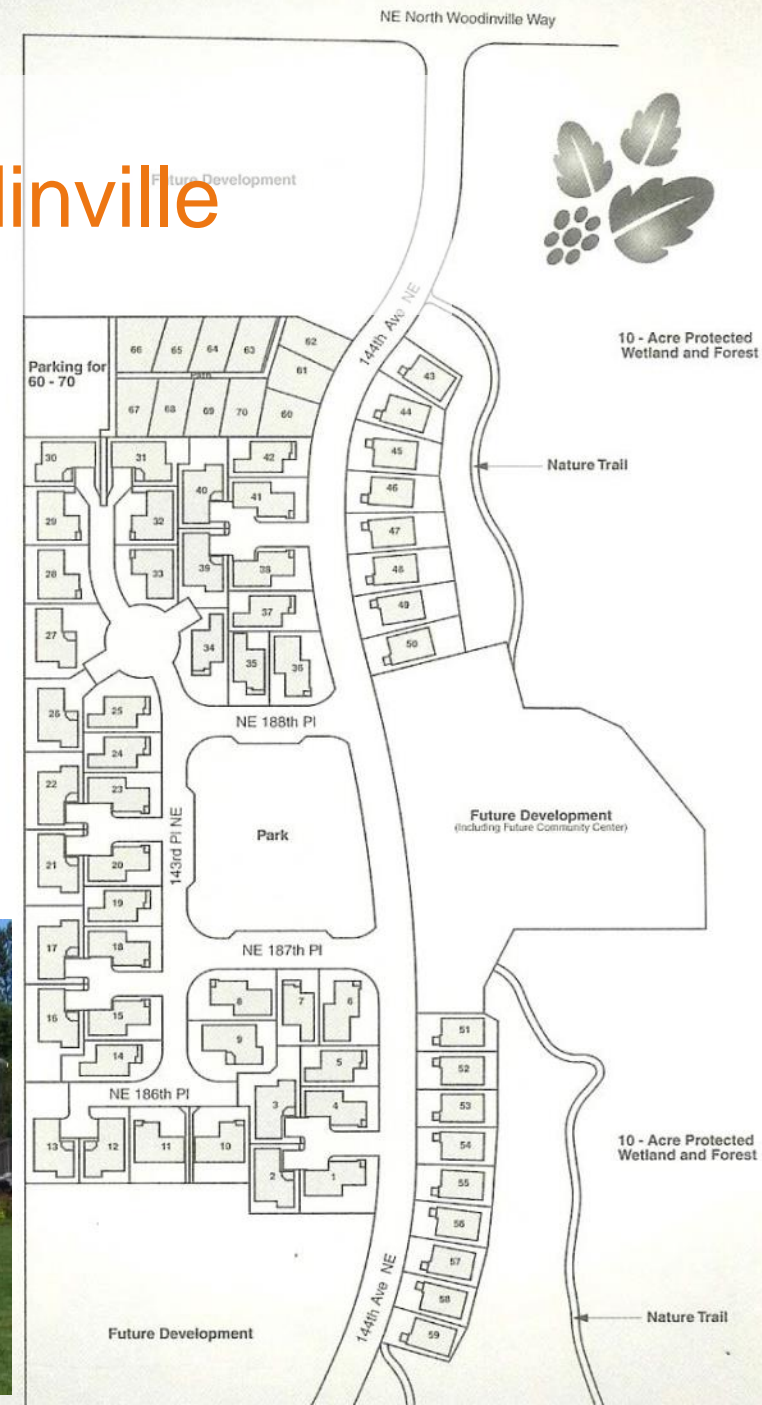
- Revisions made to policy recommendations based on feedback from Planning Commission, City Council and City staff
 - Incentives were incorporated
 - Implementation of regulations were simplified

Actions Addressing Development Standards

- Impervious surface action revised to tie more closely to effective impervious surface. Incentives established that allow standard to be exceeded.
- Actions to increase densities, cluster subdivisions, and preserve trees now include a clear link to incentives such as:
 - lot size averaging
 - density bonus
 - higher allowance for impervious surfaces
- Parking action changed to recognize unique Duvall context and Old Town parking constraints

Clustering example - Woodinville

- Mix of housing types (cottages and small lot single-family)



Actions Addressing Development Standards

- Soils report action simplified to make it easier for City staff to implement and allow the developer to avoid costly consultant fees
- Landscaping public properties action revised to give Planning Director discretion to waive requirements
- Tree protection action revised to acknowledge different site characteristics, reduced tree survey standards, succession plantings, and narrowing the definition of significant trees

Actions Addressing Development Standards

- Incorporated a trail incentive for the open space action and clarified maintenance responsibility
- Mass grading action revised to allow more flexibility and sloped yards and open spaces



Standard Development Scenario
(Conceptual - for planning purposes only)



Watershed Plan Development Scenario
(Conceptual - for planning purposes only)

Actions Addressing Stormwater Management

- Actions re-organized into four categories: (1) City-wide LID strategies, (2) small site strategies, (3) large site / centralized strategies, and (4) additional strategies
- LID action revised to:
 - Recognize challenges with infiltration
 - Remove suggestion for pervious pavement for public streetscapes (maintenance challenges)
- Flow control exemption action revised to be “right-sized” for Duvall

Actions Addressing Stormwater Management

LID Strategies for small sites and large sites



Puyallup – courtesy of WSU and Stewardship Partners

Kirkland – Park Lane



Actions Addressing Stormwater Management

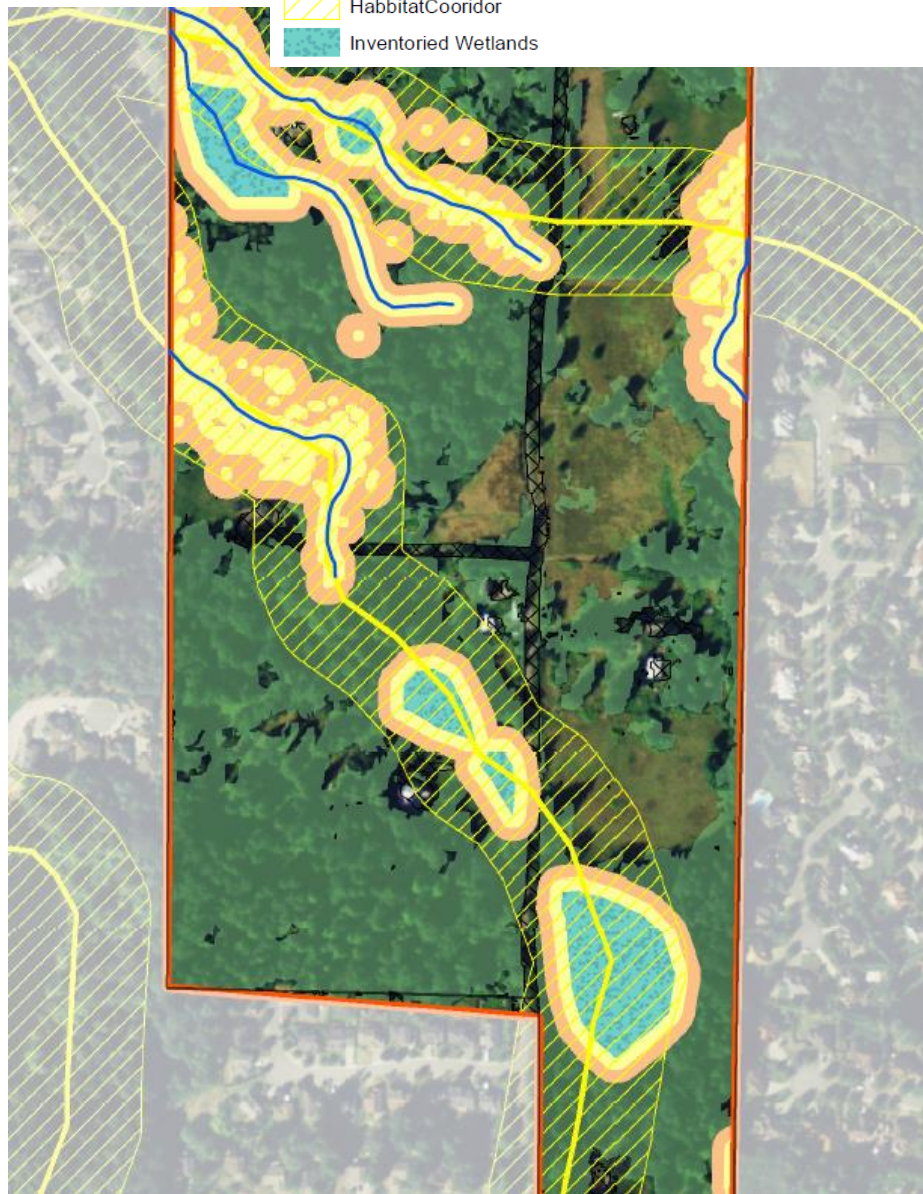
- LID incentives action revised to highlight incentive approaches that could work in Duvall
- Landscape strip action updated to provide for strip consolidation to one side of a sidewalk (multiple benefits associated with this approach highlighted)

Actions Addressing Sensitive Areas Management

- Clarified that wildlife habitat corridor width is established only for planning / review purposes
- Habitat corridors action revised to differentiate between infill development and large-scale development
- Habitat corridors map revised to reflect “pipeline” project conditions



- Inventoried Streams
- City Limits
- Urban Growth Area
- UGA Analysis Areas
- Fish & Wildlife Habitat Corridors
- Habitat Corridor
- Inventoried Wetlands
- Minimum Buffer Scenario
- Standard Buffer Scenario
- Impervious Surface
- Forest Cover



Actions Addressing Sensitive Areas Management

- Sensitive areas buffer actions made consistent throughout Plan (linkages between SA-2, SA-3, and SA-5) and with Ecology guidance
- Sensitive areas buffer action linked to tree protection incentive to encourage standard buffer protections (rather than reduction to minimum)

Actions Addressing Sensitive Areas Management

- Open space action revised to establish a minimum 10 percent contiguous open space or 15 percent throughout the site, with 50 percent planted with native shrubs and trees.
- Removed action that recommended limits on trails within sensitive areas buffers.
- Geologic hazards action revised to require compensation for reduced landslide hazard area buffer in Groups 1 and 2A



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|-----------------------------------|--------------------------|
| Inventoried Streams | Minimum Buffer Scenario |
| City Limits | Standard Buffer Scenario |
| Urban Growth Area | Impervious Surface |
| UGA Analysis Areas | Forest Cover |
| Fish & Wildlife Habitat Corridors | |
| HabitatCorridor | |
| Inventoried Wetlands | |

Standard Development Scenario



Watershed Plan Development Scenario



Additional Implications of Recommended Actions

- Alternative development approaches
 - Similar density while meeting watershed priorities
 - Cluster housing
 - Corner attached housing
 - Courtyard Housing

- Stormwater systems
 - Vaults and/or Detention Ponds
versus
 - Low Impact Development approaches

Survey Results

- 58 respondents
- Key findings
 - >80% concern for flooding / erosion, water quality, loss of F&W, forest, and ag lands
 - >50% disposed pet waste, planted trees and native landscaping, and used car washes

DUVALL WATERSHED CHARACTERIZATION PROJECT SURVEY
(Survey Intended For Duvall Residents Only)

1. What is your affiliation(s) in the community?

☐ Duvall Resident
☐ Business Owner
☐ Student
☐ Non-profit Group
☐ Riverview School District Faculty/Staff
☐ Other _____

2. Please tell us your zip code (as it applies to the affiliation listed above) _____

3. Please indicate your level of concern for each of these issues

	Not Concerned	Somewhat Concerned	Concerned	Very Concerned	N/A
Flooding and erosion in our rivers and streams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water quality in our rivers and streams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Loss of fish and wildlife habitat and natural areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Loss of forest habitat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Loss of agricultural lands	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4. In the past two years which of the following have you (or someone in your household) done to protect your watershed (check all that apply)?

☐ Installed rain garden
☐ Installed rain barrel
☐ Planted stream bank vegetation
☐ Planted native landscaping
☐ Planted trees
☐ Serviced septic tanks every 3-5 years
☐ Washed car on grass
☐ Washed car at car wash
☐ Picked up and properly disposed of pet waste

5. What actions would you want to see implemented in your area (check all that apply)?

☐ Conserve land for public use
☐ Conserve land for natural vegetation and habitat
☐ Install rain gardens
☐ Install rain barrels
☐ Replace impervious surface with pervious pavers
☐ Plant river and stream bank vegetation
☐ Plant native landscaping
☐ Plant trees
☐ Educational stormwater signage

(Survey Continued on Back)

Survey Results, continued

- Key findings

Popular watershed actions:

- Planting trees and native landscaping
- Conserving natural vegetation and habitat

Popular city actions:

- Additional incentives for developers to building housing units with smaller footprints
- Educational workshops for managing stormwater



Duvall Days – Summer 2014

Next Steps (tentative)

- Issue Determination of Non-Significance (DNS) early July
- Planning Commission Public Hearing and recommendation (August 1)
- City Council Public Hearing (August 18)
- Resolution to adopt Watershed Plan put up for a vote (late August)
- Draft regulations for consideration (July - September)